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Personalized multimedia services using a mobile service

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Abstract

In this paper we address the research issues in providing personalized multimedia service to a mobile user to remotely record video programs, control cameras, and request the delivery of live video content to his or her own mobile device. We describe a mobile service platform that allows users who send service requests from various mobile devices, transcodes video content to match device profiles, and authorizes the delivery of content from a media server to the proper client. The media server adapts automatically to the fluctuations of the wireless channel conditions found on the client device. The mobile service platform essentially manages the control path, while the server handles the actual content delivery. We discuss various aspects of the integration and experiments conducted on wireless LAN and CDPD networks.

Index Terms

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Personalized redirection of communication - group of 7 »

Y Yang, MH Williams - Computer Software and Applications Conference, 2002. COMPSAC ..., 2002 - [ieeexplore.ieee.org](#)

... this case, a file-to-file **mode** may be ... focuses on radio customization and **delivery**, and lacks ... TOPS emphasizes user **preference** management and name **translation**. ... Cited by 1 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Web Services: XML-based system integrated techniques Shien-Chiang Yu, Ruey-Shun Chen The Authors - group of 5 »

SC Yu - The Electronic Library, 2003 - [emeraldinsight.com](#)

... bandwidth causes delay of **message delivery** and the ... reduce the efficiency through the Internet to **translate messages**. ... will tend to have a service-oriented **mode**. ... Cited by 6 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Experimental encryption of aircraft communications addressing and reporting system (ACARS) ...

C Risley, J McMath, B Payne - Digital Avionics Systems, 2001. DASC. The 20th Conference, 2001 - [ieeexplore.ieee.org](#)

... Pre Departure Clearance (PDC), Oceanic Clearance **Delivery** (OCD), Waypoint ... 0 ISO-5 character **translation** in ARINC 619 ... or encrypted text deDending on the **mode** ... Related Articles - [Web Search](#)

Tutorial: Application Servers and Associated Technologies - group of 6 »

C Mohan - 28th International Conference on Very Large Data Bases, Hong ..., 2002 - [almaden.ibm.com](#)

... app **communication**) Legacy data, applications, hardware Legacy data, applications, hardware ... Open **Reference** Implementations ... **Message** Driven Beans (MDB) ... Cited by 20 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Personalized multimedia services using a mobile service platform - group of 7 »

YF Chen, H Huang, R Jana, S John, S Jora, A ... - Wireless Communications and Networking Conference, 2002. ..., 2002 - [ieeexplore.ieee.org](#)

... on the HTTP protocol for language **translation**, location-aware ... coding, scale of the quantizer, **mode** selections and ... platform and a multimedia **delivery** platform. ... Cited by 13 - [Related Articles](#) - [Web Search](#)

A learning management model for mixed mode delivery using multiple channels (Internet, intranet, CD- ... - group of 4 »

CP Zuluaga, EJS Morris - Interact, Integrate, Impact: Proceedings 20th ASCILITE ..., 2003 - [ascilite.org.au](#)

... in the format most suited to that **mode of delivery** ... as possible, but with a view to **translation** from one ... to the reliability of paper-based **delivery**, it provides ... Cited by 2 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

Structuring communications to facilitate effective teaching and learning online - group of 4 »

C Hughes, L Hewson - Computers in the Schools, 2001 - [webteach.com.au](#)

... WWW as an information retrieval and **delivery** mechanism, rather ... clear that much would be lost in the **translation**. ... ease the transition to this **mode** for teachers ...

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Agents for the Grid: A Comparison with Web Services (Part I: Transport Layer) - group of 14 »

L Moreau - Cluster Computing and the Grid, 2002. 2nd IEEE/ACM ..., 2002 - ieeexplore.ieee.org

... Such **mode of communication** is only permitted for ... and we have experi- mented with their **translation** into Jini ... As long as the contract remains **live**, the registry ...
[Cited by 28 - Related Articles - Web Search](#)

Controlling robots on-orbit - group of 2 »

CR Carignan, JC Lane, PJ Churchill - Computational Intelligence in Robotics and Automation, 2001. ..., 2001 - ieeexplore.ieee.org

... interprocess **communication** via Network Data **Delivery** Service (NDDS ... of vehicle in attitude hold **mode** while right ... that a small amount of **translation** still takes ...

Internet **delivery** of MPEG-4 object-based multimedia - group of 4 »

Y Pourmohammadi-Fallah, K Asrar-Haghighi, H ... - Multimedia, IEEE, 2003 -
ieeexplore.ieee.org

... **Delivery** layer ... Elementary stream provider: **Live** media real-time MPEG-4 encoder ...
implementation, the data plane uses the simple **mode** of the FlexMux recommendation ...
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JATLite: a Java agent infrastructure with message routing - group of 8 »

H Jeon, C Petrie, MR Cutkosky - Internet Computing, IEEE, 2000 - [ieeexplore.ieee.org](#)

... FIPA also defines an Agent **Management** System. ... tem that can relay **messages** to the migrating agent. ... engineering agents using a common **communication** language and ...

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An architecture for a generic dialogue shell - group of 13 »

J ALLEN, D BYRON, M DZIKOVSKA, G FERGUSON, L ... - Natural Language Engineering, 2001 - CambridgeUnivPress

... The flexibility of our **message**-passing infrastructure supports ... understand- ing and dialogue **management** functions that ... based on KQML **communication** supports a ...

[Cited by 75](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Identity management and its support of multilateral security - group of 4 »

S Clauß, M Köhntopp - Computer Networks, 2001 - Elsevier

... may be known which member sent the **message**). ... and use of personal data, • **management**

of policies ... defining her wishes and requirements about a **communication**. ...

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[ps] Keystone: A Group Key Management Service - group of 4 »

CK Wong, SS Lam - International Conference on Telecommunications, ICT, 2000 - [cs.utexas.edu](#)

... a novel key graph technique for scalable group key **management**. ... their keys in case of actual **message** loss. ... services) are based upon a group **communications** model ...

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Community Support and Identity Management - group of 5 »

M Koch, W Wörndl - Proceedings of the European Conference on Computer-Supported ..., 2001 - [in.tum.de](#)

... conceal the path of a **message** through the ... Anonymization in the underlying **communication**

network can be ... the core component of the **identity management** system are ...

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Application-driven power management for mobile communication - group of 19 »

R Kravets, P Krishnan - Wireless Networks, 2000 - Springer

... send, the master sends a SLEEP **message** and enters ... context of **communication**-based

power management, we want ... between two different types of **communication** patterns ...

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Open standards for interoperating agent-based systems - group of 3 »

J Dale, E Mamdani - Software Focus, 2001 - [nar.fla.com](#)

... the FIPA Agent **Management** Specification also ... digital assistants through **message** buffering, redirection ... 4.4.4 Agent **Communication Communication** between agents ...

[Cited by 33](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Corporate **identity** and corporate image revisited-A semiotic perspective Lars Thøger Christensen, ... - group of 4 »

LT Christensen - European Journal of Marketing, 2001 - emeraldinsight.com

... and practitioners of corporate **communications** typically talk ... beer, claims that "The **Message** is in ... discourse of corporate **identity management** (and sometimes ...

[Cited by 30](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[BOOK] ... Public Relations and Effective Organizations: A Study of **Communication Management** in Three Countries

LA Grunig, JE Grunig, DM Dozier - 2002 - books.google.com

... of the organization than from the **messages** that communicators ... role in the strategic **management** of the organi ... We show how **communication** programs for publics such ...

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ICEBERG: An Internet-core Network Architecture for Integrated **Communications** - group of 19 »

HJ Wang, B Raman, C Chuah, R Biswas, R Gummadi, B ... - IEEE Personal Communications, 2000 - research.microsoft.com

... session state through these update **messages** (with some ... The use of the shared group **communication** channel, com ... protocol for call state **management**, maps perfectly ...

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